

## California's Fourth Climate Change Assessment: Energy Research Portfolio

<i>Research Area</i>	<i>Project Title</i>	<i>Principal Investigator(s)</i>	<i>Institution</i>
Scenario development (external collaboration coordinated by CEC)	Developing Enhanced Socioeconomic and Land-Use Scenarios	Benjamin Sleeter (USGS), Ethan Sharygin (California Department of Finance)	
Scenario development	Weather-Related Scenarios for the Natural Gas System: California's Fourth Climate Change Assessment ( <b>hydrology, SLR, drought, and additional</b> )	Dan Cayan	UCSD, Scripps Institution of Oceanography
Scenario development	Weather-Related Scenarios for the Natural Gas System: California's Fourth Climate Change Assessment ( <b>wildfire</b> )	Leroy Westerling	UC Merced
Probabilistic Forecasting	Improving Hydrological Snowpack Forecasting for Hydropower Generation Using Intelligent Information	Steven Glaser, Martha Conklin, Roger Bales	UCB and UC Merced
Probabilistic Forecasting	Probabilistic Seasonal and Decadal Forecasting for the Natural Gas System	Dan Cayan	UCSD, Scripps Institute
Extremes: Wildfire, Floods, Heat Islands	Modeling the Impact of Wildfires on California's Transmission and Distribution Grid	Larry Dale and Max Wei	LBNL
Extremes: Wildfire, Floods, Heat Islands	Monitoring the Urban Heat Island Effect and the Efficacy of Future Countermeasures	Ronnen Levinson, Haley Gilbert	LBNL
Extremes: Wildfire, Floods, Heat Islands	Distributed Evaluation & Assessment Program for California's Transportation Fuel Sector (DEAP-TFS): Identifying Strategies for	John Radke w/ Greg Biging, Karlene Roberts (co-PIs)	UCB
Regional vulnerability and resilience	Climate Change in Los Angeles County: Grid Vulnerability to Extreme Heat	Stephanie Pincetl; w/ Alex Hall, Mikhail Chester (co-PIs)	UCLA; ASU
Regional vulnerability and resilience	High Resolution Measurement of Levee Subsidence Related to Natural Gas Infrastructure in the Sacramento- San Joaquin Delta	Benjamin Brooks	USGS
Regional vulnerability and resilience	The Adaption Blind Spot-Electrical Grid Teleconnected and Cascading Climate Change Impacts on Community Lifelines in Los Angeles	Susanne Moser, Juliette Finzi Hart	Thalassa Research & Consulting; Moser Research & Consulting
Regional vulnerability and resilience	Potential Impacts and Adaptation Options for the Electricity System from Sea Level Rise in San Diego	Andrew Petrow	ICF
Regional vulnerability and resilience	Investigate Climate Vulnerability of the Natural Gas System and Identify Resilience Options in San Diego	Andrew Petrow	ICF
Making results actionable	Visualizing Climate-Related Risks to the Natural Gas System Using Cal-Adapt	Maggi Kelly, Nancy Thomas	UCB, Geospatial Innovations Facility

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